

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/016783 A1

(51) International Patent Classification⁷: **B65D 81/32**,
A61C 5/06

(21) International Application Number:
PCT/EP2004/007178

(22) International Filing Date: 1 July 2004 (01.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
103 37 790.5 14 August 2003 (14.08.2003) DE
04 013 277.1 4 June 2004 (04.06.2004) EP

(71) Applicants (for all designated States except US): **3M ESPE AG** [DE/DE]; Espe Platz, 82229 Seefeld (DE). **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 2501 Hudson Road, St. Paul, MN 55144-1000 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **REIDT, Dean, K.** [US/US]; 9211 Hillside Trail, Cottage Grove, MN 55016 (US). **MEYERTHOLEN, Darin, J.** [US/US]; 3273 Charleston Drive, Woodbury, MN 55129 (US).

BROYLES, Bruce, R. [US/US]; 7857 28 Street North, Oakdale, MN 55128 (US). **LEE, Robert** [US/US]; 1019 Leeward Ave. N., Lake Elmo, MN 55042 (US). **BIEGLER, Robert, M.** [US/US]; 2519 Timberlea Dr., Woodbury, MN 55125 (US). **HOHMANN, Arno** [DE/DE]; Johann-Clanze-Strasse 105, 81369 München (DE). **PEUKER, Marc** [DE/DE]; Brunnenstrasse 2, 86938 Schondorf (DE). **KNEE, Michael** [DE/DE]; Schongauer Strasse 34, 82380 Peissenberg (DE).

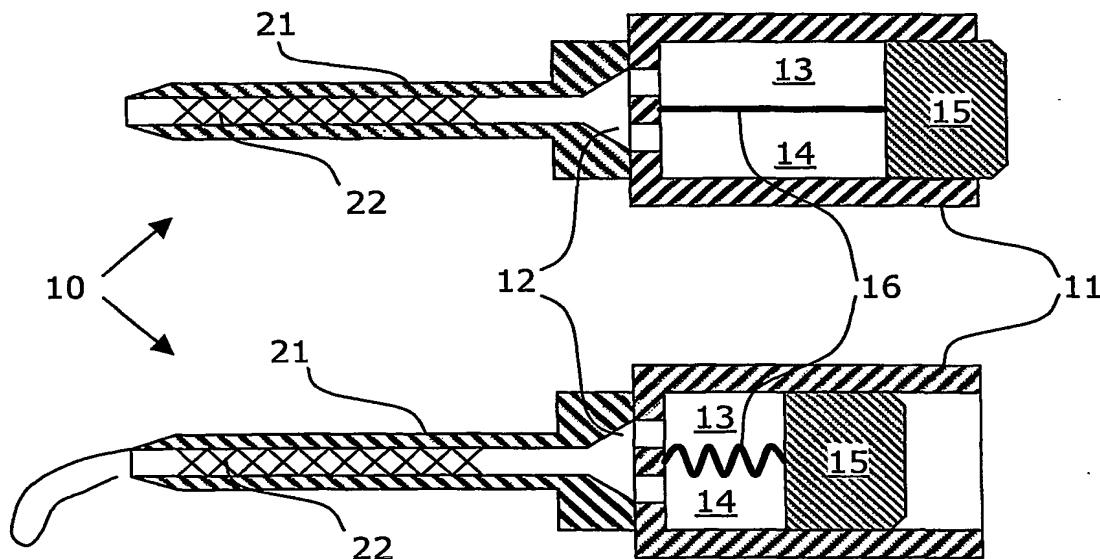
(74) Agent: **VOSSIUS & PARTNER**; Siebertstrasse 4, 81675 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: CAPSULE FOR TWO-COMPONENT MATERIALS



(57) Abstract: Capsule (10) for two or more components of a material which are to be mixed together, comprising a cartridge (11) comprising an outlet (12), a first component chamber (13) for containing a first component, and a second component chamber (14) for containing a second component, the two chambers (13, 14) opening into the outlet (12); and a piston (15) which at least with its front end sits in the cartridge (11), lies with its rear end outside the component chambers (13, 14) and, when it is pushed forwards, presses the two components out of their component chambers (13, 14).



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.